1   Claims

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3   1.   Method for the control and evaluation of the message
4   traffic of a communication unit (KE), by means of a first
5   network unit (NE1) within a mobile radio system (MS), in that
6   all messages of the message traffic are transmitted via a first
7   network unit (NE1),
8   with the first network unit (NE1) deciding, with the aid of one
9   or more items of useful information (N1) of the communication
10 unit (KE), whether one or more messages can be forwarded to a
11 second network unit (NE2) for further processing, or are to be
12 blocked,
13 and with the first network unit (NE1) deciding with the aid of
14 one or more items of useful information (NI) of the
15 communication unit (KE) whether the particular message of the
16 message traffic is to be logged in a logfile (PD) by the first
17 network unit (NE1).

18

19 2.   Method in accordance with claim 1, characterized in that
20 one or more items of useful information (NI) that determine the
21 controlling and evaluation of one or more messages of the
22 message traffic of the communication unit (KE) are called up
23 from a database (HSS).

24

25 3.   Method in accordance with one of the preceding claims,
26 characterized in that
27 a specific set of useful information (NI) is allocated in each
28 case to a user identity (NID), with the specific set of useful
29 information (NI) being used for controlling and evaluation of
30 at least one message of the message traffic of the
31 communication unit (KE).

32

33 4.   Method in accordance with claim 3,

1   characterized in that

2   the user identity (NID) is allocated to an application (AP) of

3   the communication unit (KE).

4

5   5.   Method in accordance with one of the preceding claims,

6   characterized in that

7   at least one of the following filter instructions (FW) is

8   inserted in at least one item of useful information (NI):

9   -   one or more positive destination addresses (PEA) that are

10   addressable for the communication unit (KE);

11   -   one or more negative destination addresses (NEA) that are

12   not addressable for the communication unit (KE);

13   -   one or more destination addresses (XEA) that are to be

14   logged, that are logged by the first network unit (NE1).

15

16   6.   Method in accordance with one of the preceding claims,

17   characterized in that

18   message traffic messages to be logged are characterized by an

19   acquisition identity (NI).

20

21   7.   Method in accordance with one of the preceding claims,

22   characterized in that

23   the logfile (PD) is forwarded by the first network unit (NE1)

24   by means of a logging message (PDN) to an evaluation unit (AWE)

25   for evaluation.

26

27   8.   Method in accordance with claim 7,

28   characterized in that

29   by means of the evaluation unit (AWE) the messages logged in

30   the logfile (PD) are evaluated using at least one of the

31   following criteria:

32   -   Useful data (ND) of the message;

33   -   Destination address (EA) of the message;

1   -   Number of accesses to the destination address (EA);

2   -   Data quantity;

3   -   Messages that were sent with a specific user identity

4   (NID);

5   -   Messages that were sent with a specific acquisition

6   identity (EI);

7   -   Correlation of messages with signaling information and/or

8   useful data (ND).

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10   9.   Method in accordance with one of the preceding claims,

11   characterized in that

12   the communication unit (KE) is authorized to exchange messages,

13   and in that one or more key pairs (SCP) are used to provide a

14   protected message traffic.

15

16   10.   Method in accordance with one of the preceding claims,

17   characterized by use in an architecture in accordance with an

18   IP multimedia subsystem and with the aid of the session

19   initiation protocol.

20

21   11.   Method in accordance with one of the preceding claims,

22   characterized in that

23   the first network unit (NE1) is realized by a group of network

24   elements (NEE).

25

26   12.   First network unit (NE1) for controlling and evaluating

27   message traffic of a communication unit (KE) within a mobile

28   radio system (MS), especially in accordance with at least one

29   of the preceding claims,

30   with a receiving unit (SE2) by means of which all messages of

31   the message traffic of the communication unit (KE) can be

32   received,

1   with a transmitting unit (SE2) by means of which all messages

2   of the message traffic can be transmitted,

3   and with a processing unit (VE2) by means of which it can be

4   decided whether at least one message of the message traffic

5   can, on the basis of one or more items of useful information

6   (NI) of the communication unit (KE), be forwarded to a second

7   network unit (NE2) for further processing or can be blocked,

8   and by means of which it can be decided whether at least one

9   message of the message traffic can, on the basis of one or more

10 items of useful information (NI) of the communication unit

11 (KE), be logged by the first network unit (NW1) in a logfile

12 (PD).

13

14 13.   Communication unit (KE), with the message traffic being

15 controlled and evaluated within a mobile radio system (MS) by a

16 first network unit (NE1), especially in accordance with at

17 least one of the preceding claims 1 with 11, with a receiving

18 unit (EE1), by means of which all messages of the message

19 traffic can be received, and with a transmitting unit (SE1), by

20 means of which all messages of the messages traffic can be

21 transmitted.

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